

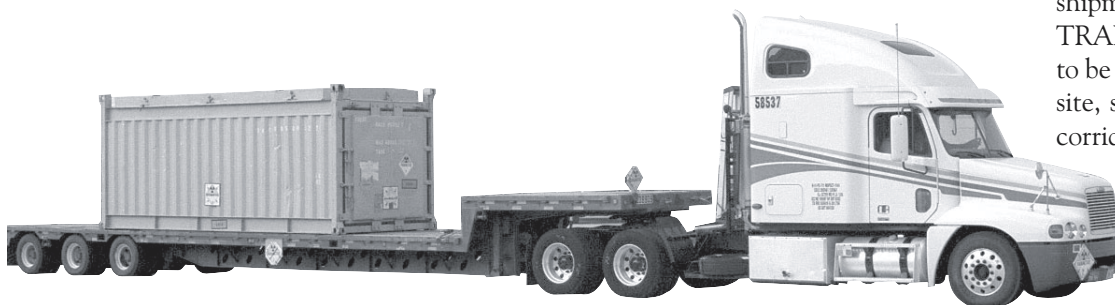
*U.S. Department of Energy Office of
Environmental Management*

National Transportation Program



TRANSCOM

The DOE Transportation Tracking and Communications System



DOE monitors the progress of some unclassified high-visibility shipments using the Transportation Tracking and Communications system (TRANSCOM). TRANSCOM utilizes onboard state-of-the-art global positioning system equipment to provide near real-time tracking.

TRANSCOM is the Department of Energy (DOE) satellite tracking and communications system used to monitor the progress of various "high-visibility" unclassified shipments such as spent nuclear fuel, high-level and transuranic radioactive waste to name a few.

How TRANSCOM Works

TRANSCOM utilizes onboard satellite global positioning system (GPS) equipment to track truck, rail, ship and barge shipments as they make their way from origin to destination. Satellites poll the enroute shipments on a 2- to 4-minute near real-time frequency and relay positional and message

information to a ground station located in the western United States. This shipment data is then relayed to the TRANSCOM Communications Center (TCC) database and made available over the Web to a network of more than 300 trained and authorized Federal, State and Tribal customers across the United States. TRANSCOM can provide position accuracy within 1,000 feet of a stopped vehicle.

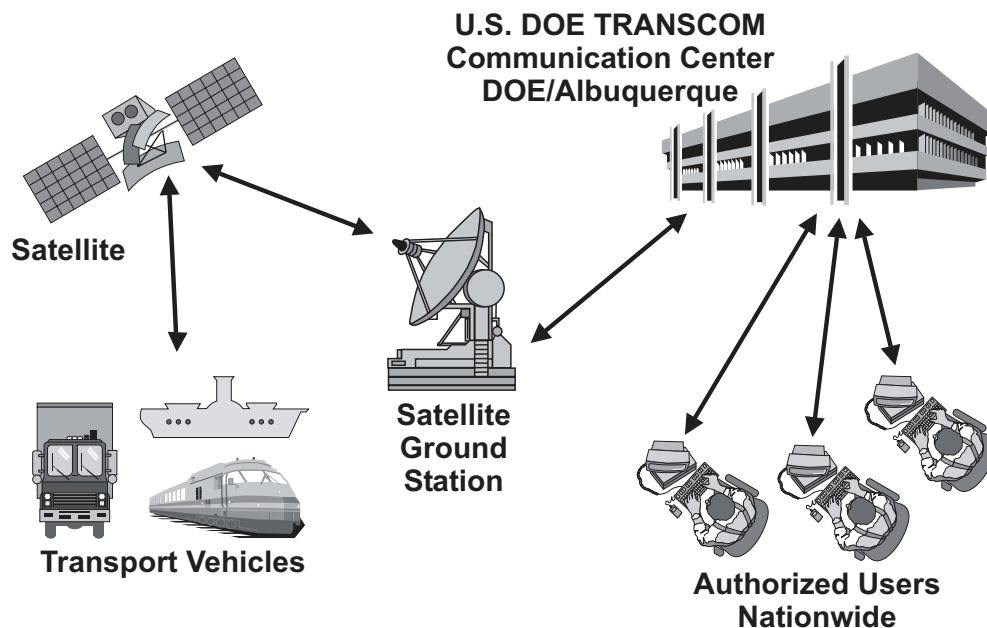
Available Shipping Information

Authorized users can access the TRANSCOM system and obtain shipment information concerning current and scheduled future

shipments. The scheduling module of TRANSCOM allows future shipments to be scheduled and viewed by DOE site, shipment campaign or shipment corridor. Only one copy of shipment information is allowed in the system, ensuring that all users view the same information. Specific shipment information available to authorized users includes bill of lading, bill of lading notes, routes, messages, positional information, emergency contact information and a state-of-the-art mapping function that auto displays shipment position information.

Customers

Although TRANSCOM was originally developed for internal DOE use, it is now available to more than 300 DOE, State and Tribal clients across the DOE transportation community. Other TRANSCOM customers include the U.S. Nuclear Regulatory Commission, DOE motor and rail carriers and the U.S. Coast Guard. TRANSCOM access provides authorized customers the ability to monitor the progress of DOE shipments as they cross their State or Tribal jurisdictions. Should an incident occur, TRANSCOM becomes



TRANSCOM clients utilize satellite positioning and communications equipment to monitor the progress of DOE unclassified high-visibility shipments.

an important tool in providing accurate and timely shipment information to support existing emergency management systems.

User Training

The National Transportation Program Albuquerque administers the TRANSCOM Program and conducts all TRANSCOM user training according to user roles. Ninety-nine percent of all TRANSCOM authorized users are General Users and have read-only privileges. All users must complete a 4-hour computer security- and application-specific training course on basic functions of the TRANSCOM system. Additionally, all users must complete a personnel screening process by their organization before they can be granted system access. Schedulers and Designated Users receive an additional

4-hour training session to provide skills and proficiency in bill of lading entry and reports and scheduling functions of the system. Designated Users have the ability to communicate directly with the shipment via the messaging function of the TRANSCOM system. Schedulers attend an 8-hour training course to gain skills to enter schedule and preliminary bill of lading information. Designated Users attend an 8-hour training course that provides skills and proficiencies to enter detailed bill of lading information and communicate directly with the shipment.

Data Integrity and Information Security

TRANSCOM incorporates multiple layers of security including unique usernames and passwords, a firewall

between the database and application servers, data encryption for data transmitted and access privileges controlled down to the menu and button levels. Users can only view shipment information authorized by the TCC. Since only one copy of shipment information can exist and required field alerts are used within the TRANSCOM system, data integrity is ensured and all users view the same information.

Additional TRANSCOM information can be viewed on the TRANSCOM Operations Website located at <http://ntp.doe.gov/transcom> or by contacting the TCC at 505-845-6200.

Additional information on DOE's National Transportation Program may be obtained from:

National Transportation Program
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400, MS SC-5
Albuquerque, NM 87185-5400

Phone: 505-845-6134
Fax: 505-845-5508

Website:
<http://www.ntp.doe.gov/>

DOE Center for Environmental
Management Information
P.O. Box 23769
Washington, DC 20026-3769

1-800-7EM-DATA
1-800-736-3282

Website:
<http://www.em.doe.gov/>

Transportation Resource Exchange Center
ATR Institute
University of New Mexico
1001 University Blvd., SE
Albuquerque, NM 87106-4342

Phone: 1-877-287-TREX (8739)
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Website:
<http://www.trex-center.org>